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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/454,875

12/03/1999

NACERDINE AZZI

RCA-89342

4350

24498

7590

10/05/2004

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EXAMINER

ZIMMERMAN, GLENN

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/454,875

Applicant(s)

AZZI ET AL.

Examiner

Glenn Zimmerman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2004 and 26 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 5,6 and 22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 5,6 and 22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 December 1999 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

Amendment, filed on June 21, 2004, has been entered and acknowledged by the examiner.

### ***Specification***

A substitute specification excluding the claims is required pursuant to 37 CFR 1.125(a) because this case has been amended several times.

A substitute specification must not contain new matter. The substitute specification must be submitted with markings showing all the changes relative to the immediate prior version of the specification of record. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. An accompanying clean version (without markings) and a statement that the substitute specification contains no new matter must also be supplied. Numbering the paragraphs of the specification of record is not considered a change that must be shown.

### ***Drawings***

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on November 25, 2002 have been approved.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the A second metal plate wherein the first and second metal plates extend on both of the saddle-shaped coils of the same pair, symmetrically with respect to the Z axis must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Dekkers et al. U.S. Patent 5,550,522.

Regarding claim 22, Dekkers et al. discloses a deflection yoke (an electromagnetic deflection unit Fig. 1 ref. 5) for a cathode-ray tube comprising: a pair of horizontal deflection coils (line deflection coils Fig. 2 ref. 10a and 10b) and a pair of vertical deflection coils (field deflection coils ref. 7) for generating magnetic deflection fields perpendicular to a main axis of the cathode-ray tube, one of the pairs including saddle-shaped coils (col. 4 line 57 and 64) having conducting wires arranged so as to form a front conductor assembly (Fig. 5 ref. 10a front portion under 16a; col. 1 line 1; col. 5 lines 1-5) and a rear conductor assembly coupled (Fig. 1 ref. 7 rear part or rear part of Fig. 2 ref. 10a and 10b no ref. #; col. 5 lines 1-5) to each other by lateral conductor bundles (Fig. 1 ref. 7 bundle sections shown and Fig. 2 ref. 10a and 10b bundle sections shown; col. 4 lines 66-67; col. 5 lines 1-5), and those parts of each of the coils which form the rear conductor assembly and the lateral bundles being arranged approximately symmetrically with respect to a plane (Fig. 2 no ref. #;

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Fig. 1 ref. 7 no ref. #); and A first metal plate (preformed premagnetized elements of permanent magnetic ferrite ref. 14) placed near (annular support Fig. 5 ref. 13; Fig. 3; Fig. 7) the front conductor assembly for locally modifying one of the direction and the amplitude of the magnetic field created by the current flow in the front conductor assembly so that, considering a first zone of the front conductor assembly and a second zone symmetrical with the first zone with respect to the plane (Fig. 2 shows symmetry), the fields created in the first and second zones are asymmetrical with respect to the plane (col. 1 lines 24-30). A second metal plate wherein the first and second metal plates extend on both of the saddle-shaped coils of the same pair, symmetrically with respect to the Z axis (Fig. 3 and 5; col. 5 lines 58-59), for locally modifying the amplitude of the magnetic field as the first metal plate does (Fig. 3 and 5; col. 5 lines 58-59; claim 2). The examiner notes that the wording "as the first metal plate does" can mean a lot of different things. For example, "as the first metal plate does" does not inherently mean "the same strength", but can mean "in the same manner", but not necessarily the same strength. The wording "as" is relative and dividing lines of what "as" means can be drawn very relatively.

Regarding claim 6, Dekkers et al. discloses a deflection yoke according to claim 22, wherein the first metal plate extends, in a plane perpendicular to the Z axis, about a mean radial direction of between 60 degrees and 90 degrees measured with respect to the direction of the plane of separation of the two coils of the same pair (Fig. 3). Figure 3 clearly shows that there are several metal plates one can choose in the 60 to 90 degree range.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dekkers et al. U.S. Patent 5,550,522 in view of Barkow et al. U.S. Patent 3,721 ,930.

Regarding claim 5, Dekkers et al. teaches all the limitations of claim 5, but fails to teach a deflection yoke wherein the saddle-shaped coils are the vertical deflection coils. Barkow in the analogous art teaches wherein the saddle-shaped coils are vertical deflection coil. Additionally, Barkow teaches incorporation of such a coil to improve deflecting of electron beams (col. 8 lines 62-67).

Consequently it would have been obvious to a person having ordinary skill in the art at the time the invention was made to use a vertical deflection coil in the saddle-shaped coil of Dekkers et al. since such a modification would improve deflecting of electron beams as taught by Barkow.

***Response to Arguments***

Applicant's arguments filed June 21 have been fully considered but they are not persuasive. June 21, 2004. The examiner notes that the wording "as the first metal plate does" can mean a lot of different things. For example, "as the first metal plate

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does" does not inherently mean "the same strength", but can mean "in the same manner" or using the same scientific principles, etc, but not necessarily the same strength. The wording "as" is relative and the dividing lines of what "as" means can be drawn very relatively in this instance. The examiner notes that if the applicant wants the wording "same strength" then that is what they should put into the limitation of claim 22.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-W 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh D Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Glenn Zimmerman

  
Vip Patel  
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AU 2879